State of California

Technical Support Document - Part A
Proposed Identification of Environmental Tobacco Smoke as a Toxic Air Contaminant

California Environmental Protection Agency
Air Resources Board
Office of Environmental Health Hazard Assessment

Air Resources Board
Stationary Source Division
Air Quality Measures Branch

March 2005

State of California
AIR RESOURCES BOARD

Technical Support Document for the "Proposed Identification of Environmental Tobacco Smoke as a Toxic Air Contaminant"

PART A

California Environmental Protection Agency
Air Resources Board
Office of Environmental Health Hazard Assessment

This report, prepared by the staff of the Air Resources Board (ARB), contains the staff's evaluation of exposures to environmental tobacco smoke in California. This report is referred to as Part A of the technical support document, Proposed Identification of Environmental Tobacco Smoke as a Toxic Air Contaminant. The Office of Environmental Health Hazard Assessment prepared the health assessment, or Part B, of the report.

ACKNOWLEDGMENTS

This report was prepared with the help of many other staff from the Air Resources Board. We particularly thank the following people for their contributions during the development of this report: Tony Servin, Michael Benjamin, Chris Nguyen, Vivian Lerch, Jose Saldana, Marline Hicks, Steven Yee, Dennis Goodenow, Steve Aston – Air Resources Board.

We would like to especially thank Dr. Katharine Hammond of the University of California, Berkeley for her technical expertise and review during the development of the ETS nicotine monitoring protocol used for our ETS monitoring study. We also thank Dr. Matthew Hengel of the University of California, Davis for his technical expertise in development of the ETS sample nicotine analysis techniques.

We would also like to express our deep appreciation for the help of the staff from the Los Angeles and Ventura County's Tobacco Control Sections for their expertise and funding for our ETS air monitoring study. Without their help and funding, a quantifiable assessment based on outdoor California exposures may not have been possible.

Project Leads
Robert Krieger
Jim Stebbins

Contributing Authors
Susie Chung
Lynn Baker
Peggy Jenkins
David Julian
Susan Lum
Judy Polakoff (OEHHA)
Dorothy Shimer
Bruce Winder (OEHHA)

Reviewed and Approved by:
Stationary Source Division
Peter Venturini, Division Chief
Bob Barham, Assistant Division Chief
Janette Brooks, Chief, Air Quality Measures Branch
Jim Aguila, Manager, Substance Evaluation Section

TABLE OF CONTENTS

TABLE OF CONTENTS (con't)

LIST OF TABLES

LIST OF TABLES (con't)

LIST OF FIGURES